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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,772	04/07/2005	Douglas McBain	OMNZ 2 00011 US	9969
	7590 08/14/200 LUTIONS, INC.	EXAMINER		
175 GHENT RO	OAD	LEE, EDMUND H		
FAIRLAWN, OH 44333-3300			ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			08/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/530,772	MCBAIN ET AL.
Office Action Summary	Examiner	Art Unit
	EDMUND H. LEE	1791
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 23 / 2a) This action is FINAL . 2b) This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4)	withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctable. 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	tion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate

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DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-9, 12-14, 18, and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yonemochi et al (USPN 6180043) in view of JP 11-147236 (English abstract and translation). In regard to claim 1, Yonemochi et al teach the claimed process (col 3, ln 17-52; col 4ln 49-col 5, ln 55; examples; and figs 1-3) except the step of recording data on a control apparatus. It should be noted that Yonemochi et al teach measuring various molding values including the claimed elapsed time, and mold cavity pressure and temperature (col 3, ln 17-52; col 4ln 49-col 5, ln 55; examples; and figs 1-3). JP 11-147236 teaches a composite molding process including recording various molding parameters such as time, pressure, and temperature in order to ensure the quality of a molded composite (paragraphs 13 and 16-18). JP 11-147236 also teaches comparing/evaluating recorded values and visual inspections of molded products to

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produce the highest quality products. Since Yonemochi et al and JP 11-147236 are analogous with respect to injection molding composite products by injecting a material against a layer of material in the mold, it would have been obvious to one of ordinary skill in the art at the time the invention was made to record the measured values, i.e., elapsed time, mold cavity pressure, and mold cavity temperature, of Yonemochi et al as taught by JP 11-147236 in order to form high quality products. In regard to claim 2, such is taught by the above combination of Yonemochi et al and JP 11-147236. In regard to claims 3,5,6,7,8,18 and 20, such are taught by Yonemochi et al (col 3, ln 17-52; col 4 In 49-col 5, In 55; examples; and figs 1-3)--it should be noted that reduction of clamping pressure does not necessarily result in a change in mold cavity volume, and the times and durations taught by Yonemochi et al constitute the claimed predetermined times. In regard to claim 4, Yonemochi et al teach all of the claimed limitations except providing sensors between the mold members that define the mold cavity. The exact placement of sensors is a mere obvious matter of choice dependent on the mold equipment availability and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed placement of the sensors is well-known in the molding art as an effective position to retrieve accurate data. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to position the sensors of Yonemochi et al between the mold members of Yonemochi et al in order to retrieve accurate data. In regard to claim 9, such is well-known in the molding art in order to reduce cycle time without compromising quality of the molded article. Thus, it would have been obvious to Application/Control Number: 10/530,772 Page 4

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one of ordinary skill in the art at the time the invention was made to inject the molding material of Yonemochi et al when the desired mold cavity temperature is achieved in order to reduce cycle time without compromising quality of the molded article. In regard to claims 12-14 and 21-23, such are conventional steps and procedures for quality control of a molding process. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the claimed limitations into the process of Yonemochi et al in order to efficiently control and monitor the quality of the molded articles of Yonemochi et al.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is 571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571.272.1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EDMUND H. LEE Primary Examiner Art Unit 1791

EHL

/EDMUND H. LEE/

Primary Examiner, Art Unit 1791